From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

WATANABE, Takeo Yushima Lemie Building, 3rd Floor 21-15, Yushima 3-chome Bunkyo-ku, Tokyo 113-0034 JAPON

Date of mailing (day/month/year) 14 June 2000 (14.06.00)	
Applicant's or agent's file reference 0008PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP00/02361	International filing date (day/month/year) 12 April 2000 (12.04.00)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 12 April 1999 (12.04.99)

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
 International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
 indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
 document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date
Priority application No.
Country or regional Office of priority document

12 Apri 1999 (12.04.99)

11/104551

Country or regional Office of priority document

12 Apri 1999 (12.04.99)

O5 June 2000 (05.06.00)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Taïeb Akremi (

Telephone No. (41-22) 338.83.38

Form PCT/IB/304 (July 1998)

Facsimile No. (41-22) 740.14.35

P^TENT COOPERATION TREA™'

	From the INTERNATIONAL BUREAU		
PCT	To:		
101			
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office		
, , , , , , , , , , , , , , , , , , , ,	Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE		
Date of mailing: 19 October 2000 (19.10.00)	in its capacity as elected Office		
International application No.: PCT/JP00/02361	Applicant's or agent's file reference: 0008PCT		
International filing date: 12 April 2000 (12.04.00)	Priority date: 12 April 1999 (12.04.99)		
Applicant: MURAKAMI, Katsuya et al			
1. The designated Office is hereby notified of its election made: X in the demand filed with the International preliminary Examining Authority on: 12 April 2000 (12.04.00) in a notice effecting later election filed with the International Bureau on: 2. The election X was was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer: J. Zahra		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		



From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE **COMMUNICATION OF THE INTERNATIONAL** APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

WATANABE, Takeo Yushima Lemie Building, 3rd Floor 21-15. Yushima 3-chome Bunkyo-ku, Tokyo 113-0034 **JAPON**

Date of mailing (day/month/year)

19 October 2000 (19.10.00)

Applicant's or agent's file reference

0008PCT

IMPORTANT NOTICE

International application No. PCT/JP00/02361

International filing date (day/month/year) 12 April 2000 (12.04.00)

Priority date (day/month/year) 12 April 1999 (12.04.99)

Applicant

TOYOTA JIDOSHA KABUSHIKI KAISHA et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

CN, EP, IN, JP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 19 October 2000 (19.10.00) under No. WO 00/62312

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

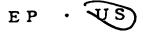
The International Bur au of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35



PCT

国際調査報告

(法8条、法施行規則第40、41条) [PCT18条、PCT規則43、44]

出願人又は代理人 の書類記号 0008PCT		報告の送付通知様式(PCT/ISA/220) 5を参照すること。			
国際出願番号 PCT/JP00/02361	国際出願日 (日.月.年) 12.04.00	優先日 (日.月.年) 12.04.99			
出願人 (氏名又は名称) トヨタ自動車株式会社					
国際調査機関が作成したこの国際調査		8条)の規定に従い出願人に送付する。			
この国際調査報告は、全部で3	<i>ペ</i> ージである。				
この調査報告に引用された先行も	支術文献の写しも添付されている。				
	(ほか、この国際出願がされたものに れた国際出願の翻訳文に基づき国際調				
b. この国際出願は、ヌクレオチ l この国際出願に含まれる書	マスはアミノ酸配列を含んでおり、次の面による配列表。	の配列表に基づき国際調査を行った。			
□ この国際出願と共に提出さ	れたフレキシブルディスクによる配列	表			
	関に提出された書面による配列表				
	関に提出されたフレキシブルディスク る配列表が出願時における国際出願の	による配列表 開示の範囲を超える事項を含まない旨の陳述			
· ·	□ 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述				
2. 請求の範囲の一部の調査ができない(第1欄参照)。					
3. □ 発明の単一性が欠如している(第Ⅱ欄参照)。					
4.発明の名称は 🗓 出願	重人が提出したものを承認する。				
□ 次6	に示すように国際調査機関が作成した。				
ー 第1 国際	- I欄に示されているように、法施行規則	削第47条(PCT規則38.2(b))の規定により の国際調査報告の発送の日から1カ月以内にこ できる。			
6. 要約書とともに公表される図は、 第 <u>4</u> 図とする。 出願	頂人が示したとおりである。	□ なし			
□ 出願	(人は図を示さなかった。				
X 本位	図は発明の特徴を一層よく表している。	•			



発明の属する分野の分類(国際特許分類(IPC)) Int. Cl' H01F5/00, 5/06, H02K3/50, H01M8/02,

B29C45/16, B29L31:34

調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int. Cl⁷ H01F5/00, 5/06, H02K3/50, H01M8/02, B29C45/16, B29L31:34, F02M55/02, F02M51/06

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報

1922-1996年

日本国公開実用新案公報 1971-2000年

日本国実用新案登録公報 1995-2000年

日本国登録実用新案公報 1994-2000年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X	│JP,11−97270,A(ティーディーケイ株式会社),	1-2
Y	9.4月.1999(09.04.99),	4
A	全文,第1-5図(ファミリーなし)	3, 5, 9-
		10
Y	│ JP,6-333580,A(三菱重工株式会社),	6 - 7
_	2. 12月. 1994 (02. 12. 94),	
	全文, 第1図 (ファミリーなし)	
	主义、第1凶(ノアミリーなし)	
1	i ·	

X C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

- * 引用文献のカテゴリー
- 「A」特に関連のある文献ではなく、一般的技術水準を示す もの
- 「E」国際出願日前の出願または特許であるが、国際出願日 以後に公表されたもの
- 「L」優先権主張に疑義を提起する文献又は他の文献の発行 日若しくは他の特別な理由を確立するために引用する 文献 (理由を付す)
- 「〇」口頭による開示、使用、展示等に言及する文献
- 「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

- 「T」国際出願日又は優先日後に公表された文献であって て出願と矛盾するものではなく、発明の原理又は理 論の理解のために引用するもの
- 「X」特に関連のある文献であって、当該文献のみで発明 の新規性又は進歩性がないと考えられるもの
- 「Y」特に関連のある文献であって、当該文献と他の1以 上の文献との、当業者にとって自明である組合せに よって進歩性がないと考えられるもの
- 「&」同一パテントファミリー文献

国際調査を完了した日

14.07.00

国際調査報告の発送日

01.08.00

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号100-8915 東京都千代田区霞が関三丁目4番3号 特許庁審査官(権限のある職員) 重田 尚郎

2950

電話番号 0.3-3581-1101

内線 3565

C(続き).	関連すると認められる文献		
引用文献の カテゴリー*	関連する 引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示 請求の範囲の番号		
Y	JP, 5-269786, A (東芝ケミカル株式会社), 19.10月.1993 (19.10.93), 全文, 第1-8図 (ファミリーなし)	8 11-13	
Y	JP, 10-103191, A(愛三工業株式会社), 21.4月.1998(21.04.98), 全文,第1-2図(ファミリーなし)	11-13	
		·	
		·	

REC'D 28 NOV 2000 WIPO PCT

PCT

国際予備審査報告

(法第12条、法施行規則第56条) [PCT36条及びPCT規則70]

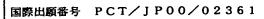
出願人又は代理人 の書類記号 0008PCT	* カワ A / A 1 C \ た 参照 オスッレ				
国際出願番号 PCT/JP00/02361 国際出願日 (日.月.年) 12.04.00 優先日 (日.月.年) 12.04.99					
国際特許分類 (IPC) H01F5/00, 5/06, H02K3/50, H01M8/02, Int.Cl' B29C45/16, B29L31:34					
出願人(氏名又は名称) トヨタ自動車株式会社					
1. 国際予備審査機関が作成したこの	国際予備審査報告を法施行規則第57条(P(CT36条)の規定に従い送付する。			
2. この国際予備審査報告は、この表	紙を含めて全部で4 べー	ジからなる。			
□ この国際予備審査報告には、 査機関に対してした訂正を含 (PCT規則70.16及びPC7 この附属書類は、全部で	附属書類、つまり補正されて、この報告の記 む明細書、請求の範囲及び/又は図面も添作 「実施細則第607号参照) 	基礎とされた及び/又はこの国際予備審 付されている。			
3. この国際予備審査報告は、次の内	容を含む。				
I X 国際予備審査報告の基礎					
II 優先権					
Ⅲ □ 新規性、進歩性又は産業	Ⅲ				
IV 開の単一性の欠如					
V X PCT35条(2)に規定 の文献及び説明 VI	の文献及び説明				
□ VII □ 国際出願の不備					
№ 国際出願に対する意見	™ 国際出願に対する意見				
国際予備審査の請求書を受理した日 12.04.00	国際予備審査報告を 13.	作成した日 11.00			
名称及びあて先	特許庁審査官(権限	のある職員) 5R 2950			
日本国特許庁(IPEA/JF 郵便番号100-8915					

電話番号 03-3581-1101 内線

3565

東京都千代田区霞が関三丁目4番3号

国際予備審査報告



Ι.	国際予備審査報告の基礎				
1.	1. この国際予備審査報告は下記の出願書類に基づいて作成された。 (法第6条 (PCT14条) の規定に基づく命令に 応答するために提出された差し替え用紙は、この報告書において「出願時」とし、本報告書には添付しない。 PCT規則70.16,70.17)				
	X 出願時の国際出願書類				
	明細書 第 ページ、 明細書 第 ページ、 明細書 第 ページ、	出願時に提出されたもの 国際予備審査の請求 客 と共に提出されたもの 付の書簡と共に提出されたもの			
	請求の範囲 第 項、 請求の範囲 第 項、 請求の範囲 第 項、 請求の範囲 第 項、	出願時に提出されたもの PCT19条の規定に基づき補正されたもの 国際予備審査の請求書と共に提出されたもの 付の書簡と共に提出されたもの			
		グ図、 出願時に提出されたもの グ図、 国際予備審査の請求書と共に提出されたもの グ図、 付の書簡と共に提出されたもの			
	明細書の配列表の部分 第 ページ、 明細書の配列表の部分 第 ページ、 明細書の配列表の部分 第 ページ、				
2.	上記の出願書類の言語は、下記に示す場合を除くほか	、この国際出願の言語である。			
	上記の書類は、下記の言語である 語	である。			
	□ 国際調査のために提出されたPCT規則23.1(b)にいう翻訳文の言語 □ PCT規則48.3(b)にいう国際公開の言語 □ 国際予備審査のために提出されたPCT規則55.2または55.3にいう翻訳文の言語				
3.	<u>_</u>	んでおり、次の配列表に基づき国際予備審査報告を行った。 ·			
	□ この国際出願に含まれる書面による配列表□ この国際出願と共に提出されたフレキシブルディスクによる配列表				
	□ 出願後に、この国際予備審査(または調査)機関				
		間に提出されたフレキシブルディスクによる配列表 3ける国際出願の開示の範囲を超える事項を含まない旨の陳述			
	□ 田願後に毎日した番目による配列表が田願時におりる国族出願の開から起記を選える「大人」という。 書の提出があった □ 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述 書の提出があった。				
4.	4. 補正により、下記の書類が削除された。				
	□ 明細書 第ベージ □ 請求の範囲 第項				
	図面 図面の第	ページ/図			
5.	5. □ この国際予備審査報告は、補充欄に示したように、補正が出願時における開示の範囲を越えてされたものと認められるので、その補正がされなかったものとして作成した。(PCT規則70.2(c) この補正を含む差し替え用紙は上記1. における判断の際に考慮しなければならず、本報告に添付する。)				



国際出願番号 PCT/JP00/02361

見解		
新規性(N)	請求の範囲 3-13	
	請求の範囲 1-2	
進歩性(IS)	請求の範囲 3,5,9,10	
	請求の範囲 1-2,4,6-8,	11-13
産業上の利用可能性(IA)	請求の範囲 1-13	
	請求の範囲	

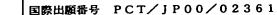
請求の範囲1-2 文献1: JP, 11-97270, A (ティーディーケイ株式会社), 9. 4月. 1999 (09. 04. 99), 全文, 第1図 には、通電部が導電体と樹脂等との混合物で、螺旋状に形成されたコイルが記載 されている。

請求の範囲4 文献1には、通電部が導電体と樹脂等との混合物で、螺旋状に形成されたコイル が記載されている。なお、文献1の技術をモータのステータやロータ等のコイル に適用させることは、当業者であれば容易に成し得たことである。

請求の範囲6-7 文献2: JP,6-333580,A(三菱重工株式会社), 2.12月.1994(02.12.94),全文,第1図 には、導電性樹脂等で構成され、反応ガスの流入、流出用の穴及び反応ガスの流 れる溝が両面に形成された燃料電池のセパレータが記載されている。なお、燃料 電池のセパレータを電解質を挟んで利用することは、当該技術分野における周知 技術である。

請求の範囲8 文献3: JP, 5-269786, A(東芝ケミカル株式会社), 19.10月.1993(19.10.93), 全文,第1-8図 には、導電性繊維及び低融点金属を含有する熱可塑性樹脂を、射出形成金型に射 出流入して、固化し、導電体を成形する導電性長尺成型品の製造方法が記載され ている。

請求の範囲11-13 文献3には、導電性繊維及び低融点金属を含有する熱可塑性樹脂で成形された導 電体を、絶縁層によって被覆する技術が記載されている。







補充欄 (いずれかの欄の大きさが足りない場合に使用すること)

第 V.2 欄の続き

文献4: JP, 10-103191, A (愛三工業株式会社), 21. 4月. 1998 (21. 04. 98), 全文, 第1-2図 には、外部端子に電気的に接続する接続部を有し、導電部材をハウジングに一体 的に収容する燃料分配管が記載されている。

文献4の燃料分配管の構造に文献3の技術を適用し、導電性樹脂を絶縁層によって 被覆して、導電部を燃料分配管と一体的に形成することは、当業者であれば容易に 成し得たことである。 DOCKET NO.: 214133US2PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Katsuya MURAKAMI, et al.

SERIAL NO.: NEW U.S. PCT APPLICATION

FILED: HEREWITH

INTERNATIONAL APPLICATION NO.: PCT/JP00/02361

INTERNATIONAL FILING DATE: April 12, 2000

FOR: PRODUCT WITH ELECTRICALLY CONDUCTING PORTIONS OF HIGHLY

CONDUCTIVE RESINS, AND MANUFACTURE METHOD THEREOF

REQUEST FOR CONSIDERATION OF DOCUMENTS CITED IN INTERNATIONAL SEARCH REPORT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In the matter of the above-identified application for patent, notice is hereby given that applicant(s) request that the Examiner consider the documents cited in the International Search Report according to MPEP §609 and so indicate by a statement in the first Office Action that the information has been considered. When the Form PCT/DO/EO/903 indicates both the search report and copies of the documents are present in the national stage file, there is no requirement for the applicant(s) to submit them (1156 O.G. 91 November 23, 1993).

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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Translation



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0008PCT	I FOR FURTHER ACTION TO THE POPULATION			
International application No.	International filing date (day/m	·	Priority date (day/month/year)	
PCT/JP00/02361	12 April 2000 (12.0	4.00)	12 April 1999 (12.04.99)	
International Patent Classification (IPC) or national classification and IPC H01F 5/00, 5/06, H02K 3/50, H01M 8/02, B29C 45/16, B29L 31:34				
Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA				
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of a total of	3 sheets, including	g this cover sl	neet.	
amended and are the basis for	ied by ANNEXES, i.e., sheets of r this report and/or sheets contain Administrative Instructions under	ning rectificat	on, claims and/or drawings which have been cions made before this Authority (see Rule	
These annexes consist of a tot	otal of sheets.			
3. This report contains indications relat	ting to the following items:			
I Basis of the report				
II Priority	II Priority			
III Non-establishment o	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of invention				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			ventive step or industrial applicability;	
VI Certain documents of	cited			
VII Certain defects in th	ne international application			
VIII Certain observations on the international application				
Date of submission of the demand	Date of	f completion o	f this report	
12 April 2000 (12.04	.00)	13 No	vember 2000 (13.11.2000)	
Name and mailing address of the IPEA/JP	Author	ized officer		
Facsimile No.		one No.		

ational application No.

PCT/JP00/02361

I. 3	I. Basis of the report				
1.	1. With regard to the elements of the international application:*				
	\boxtimes	the inte	mational application as originally filed		
		the desc	cription:		
		pages	, as originally filed		
		pages	, filed with the demand		
		pages	, filed with the letter of		
		the clair	ms:		
		pages	, as originally filed		
		pages	, as amended (together with any statement under Article 19		
		pages	, filed with the demand		
		pages	, filed with the letter of		
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		pages	, as originally filed		
		pages	, filed with the demand		
		pages	, filed with the letter of		
	t	he seque	nce listing part of the description:		
		pages	, as originally filed		
		pages	, filed with the demand		
ŀ		pages	, filed with the letter of		
2.	the ir	nternation	o the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item. ts were available or furnished to this Authority in the following language which is:		
		the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).		
ŀ	Ц	the lan	guage of publication of the international application (under Rule 48.3(b)).		
	Ш	the lan or 55.3	guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/).		
3.			to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing:		
		contain	ned in the international application in written form.		
	Ц	filed to	gether with the international application in computer readable form.		
	Щ	furnish	ed subsequently to this Authority in written form.		
	Ц		ed subsequently to this Authority in computer readable form.		
			atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.		
	Ш		atement that the information recorded in computer readable form is identical to the written sequence listing has armished.		
4.		The am	nendments have resulted in the cancellation of:		
			the description, pages		
			the claims, Nos.		
			the drawings, sheets/fig		
5.			port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**		
*	in th	is report	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16		
**		70.17). replacem	ent sheet containing such amendments must be referred to under item I and annexed to this report.		

ational application No.

PCT/JP00/02361

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	3-13	YE:
	Claims	1-2	NO
Inventive step (IS)	Claims	3,5,9,10	YE
	Claims	1-2,4,6-8,11-13	NO
Industrial applicability (IA)	Claims	1-13	YE
	Claims		NO

2. Citations and explanations

Claims 1-2

Document 1 [JP, 11-97270, A (TDK Corporation), 9 April, 1999 (09.04.99); entire text; Fig. 1] discloses a coil for which the conducting part is made of a mixture of a conductor and a resin or the like and formed into a helical shape.

Claim 4

Document 1 discloses a coil for which the conducting part is made of a mixture of a conductor and a resin or the like and formed into a helical shape. Moreover, it is considered that it would have been easy for a person skilled in the art to apply the art of claim 1 to the coil of something like the stator or rotor of a motor.

Claims 6-7

Document 2 [JP, 6-333580, A (Mitsubishi Heavy Industries, Ltd.), 2 December, 1994 (02.12.94); entire text; Fig. 1] discloses a fuel cell separator that is composed of a conductive resin or the like and for which holes for the inflow and outflow of a reacting gas and grooves along which the reacting gas flows are formed on both faces. Moreover, it is well-known art in the technical field in question to use a fuel cell separator with an electrolyte sandwiched inside.

Claim 8

Document 3 [JP, 5-269786, A (Toshiba Chemical Corporation), 19 October, 1993 (19.10.93); entire text; Figs. 1-8] discloses a manufacturing method for a long conductive molded item in which a thermoplastic resin containing conductive fibers and a low-melting-point metal is injected into an injection molding die and is then hardened to form a conductor.

Claims 11-13

Document 3 discloses art in which a conductor formed from a thermoplastic resin containing conductive fibers and a low-melting-point metal is covered with an insulating layer.

Document 4 [JP, 10-103191, A (Aisan Industry Co., Ltd.), 21 April, 1998 (21.04.98); entire text; Figs. 1-2] discloses a fuel distribution pipe, which has a connecting part that is electrically connected to an external terminal, and for which a conducting member is integrally housed in a housing.

It is considered that it would have been easy for a person skilled in the art to apply the art of document 3 to the structure of the fuel distribution pipe of document 4, thus covering a conductive resin with an insulating layer and forming the conducting part integrally with the fuel distribution pipe.

Translation

PATENT COOPERATION TRATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

	(PCT Article 36 and Rule 70)		
Applicant's or agent's file reference K-3Nano FOR FURTHER ACTION SeeNotification of Transmittal of International Report (Form PCT/IPEA/416) Examination Report (Form PCT/IPEA/416)			
International application No.	Priority date (day/month/year)		
РСТ/ЈР00/06761	29 September 2000 (29.09.00)	19 November 1999 (19.11.99)	
International Patent Classification (IPC) or n A61K 47/34, C08J 3/02, C08G 6	ational classification and IPC 59/40, B01J 13/00// A61K 48/00, C12N1	5/88	
Applicant	NANOCARRIER CO., LTD.		
This international preliminary exami and is transmitted to the applicant according to the accordi	nation report has been prepared by this Intern cording to Article 36.	ational Preliminary Examining Authority	
	6 sheets, including this cover st		
	ed by ANNEXES, i.e., sheets of the description this report and/or sheets containing rectificate Administrative Instructions under the PCT).	on, claims and/or drawings which have been tions made before this Authority (see Rule	
These annexes consist of a total	al of sheets.		
3. This report contains indications relati	ng to the following items:		
I Basis of the report			
II Priority			
III Non-establishment of	opinion with regard to novelty, inventive step	o and industrial applicability	
IV Lack of unity of inver			
V Reasoned statement us citations and explanat	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;		
VI Certain documents cite	ed		
VII Certain defects in the international application			
VIII Certain observations on the international application			
Date of submission of the demand	Date of completion of t	this report	
24 April 2001 (24.04.0		uary 2002 (11.01.2002)	
Name and mailing address of the IPEA/JP	Authorized officer		
Facsimile No.	Telephone No.		

International application No.

PCT/JP00/06761

1. With regard to the elements of the international application:* the international application as originally filed the description: pages pa	1 I. B	asis of	the report
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the description: pages p	5		**
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2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. The amendments have resulted in the cancellation of: the description, pages			filed with the demand
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			and them I and annexed to this report.

International application No.

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IV. Lack of unity of invention							
In response to the invitation to restrict or pay additional fees the applicant has:							
restricted the claims.	·						
paid additional fees.							
paid additional fees under protest.							
neither restricted nor paid additional fees.							
This Authority found that the requirement of unity of invention is not complied with and chose, ac not to invite the applicant to restrict or pay additional fees.	cording to Rule 68.1,						
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is							
complied with.							
not complied with for the following reasons:							
See supplemental sheet for continuation of Box IV. 3.							
	·						
	•						
	·						
Consequently, the following parts of the international application were the subject of international prelimina nestablishing this report:	ry examination						
all parts.							
the parts relating to claims Nos.	·						

nternational application No.
PCT/JP 00/06761

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 1.

Claims 1-6 relate to methods for stabilizing polyion complex micelles in general and Claims 7-11 relate to specified copolymers and to polyion complex micelle compositions containing said copolymers. The technical feature of the former inventions is stabilization of polyion complex micelles in general, which embraces micelles unrelated to the specified copolymers which constitute the technical feature of the latter inventions. Therefore the technical features of the two groups of inventions are not the same and do not correspond, so that the two groups of inventions do not constitute a group of inventions so linked as to form a single general inventive concept.

ternational application No. PCT/JP 00/06761

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	6	YES
	Claims	1-5, 7-12	NO
Inventive step (IS)	Claims		YES
	Ċlaims	1-12	NO NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

- 2. Citations and explanations
 - Document 1: Y. Kakizawa et al., "Antisense DNA naihou poriion konpurekkusu miseru no kouchiku SS ketsugou niyoru naikaku anteika kouka -", Kobunshi Gakkai Yokoshu, September 1999, Vol. 48, pp. 2989-2990
 - Document 2: Atsushi Harada et al., "Novel polyion complex micelles entrapping enzyme molecules in the core: Preparation of narrowly-distributed micelles from lysozyme and poly(ethylene glycol)-poly(aspartic acid) block copolymer in aqueous medium", Macromolecules, 1998, Vol. 31, No. 2, pp. 288-294
 - Document 3: EP, 844269, A1 (Kazunori Kataoka), 27 May 1998 (27.05.98) & WO, 97/06202, A1 & CA, 2229068, A & AU, 9666310, A1 & CN, 1192759, A & BR, 9610053, A & NO, 9705584, A & US, 5929177, A

The whole of Document 1 discloses block copolymers which are block polymers (PEG-PLL) bearing thiol residues represented by (I) in the claims, and a method for stabilizing polyion complex micelles by forming crosslinking disulphide bonds between the charged segments of said thiol residue-bearing block copolymer via said thiol

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residues; therefore, Claims 1-5 and 7-12 are not novel.

Claim 6 relates to a method in which the copolymer is represented by (II) and (III), which is not disclosed in Document 1. However, the whole of Document 2 and Document 3, claims, disclose a block copolymers used like the aforementioned block polymer (PEG-PLL) in the formation of polyion complex micelles, and a person skilled in the art could easily deduce the application of the method in Document 1 in order to stabilize polyion complex micelles disclosed in Document 2 or 3, by forming thiol residue-bearing block copolymers represented by (II) or (III) and using the same.

Therefore, Claim 6 does not involve an inventive step.